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CIA/OCI IAS 2294/73

SECRET/NF/CD/BUO-THE SOUTH ASIAN MILITARY  
HANDBOOK

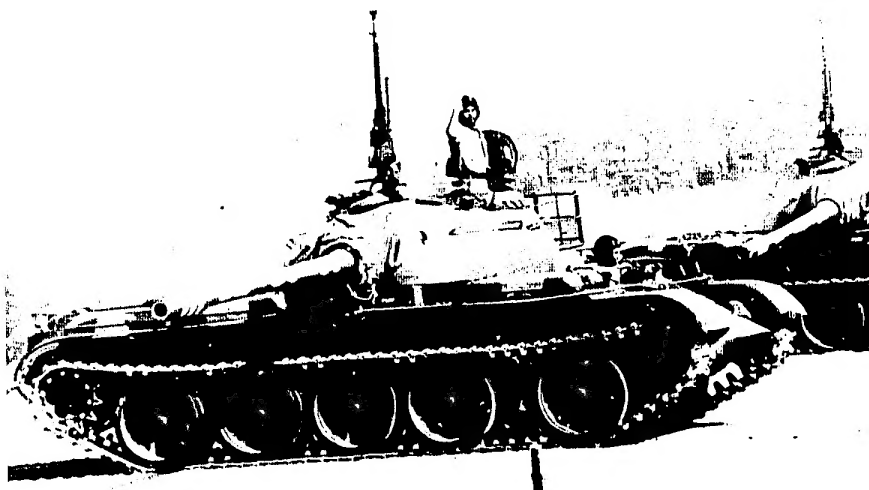
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02 OF 02

SECRET

T-54/55/59 MEDIUM TANK

India, Pakistan



Characteristics

Main armament	100 mm. tank gun
Weight	40 tons
Speed	31 mph
Cruising range	250 (T-54) miles 310 (T-55) miles
Crew	4

Remarks

Both India and Pakistan have received enough of these medium tanks to make them the mainstay of their armored forces. New Delhi has purchased T-54/55s from the USSR, Poland, and Czechoslovakia. Pakistan has received the T-59, the Chinese version of the tank, and a few Soviet models.

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SECRET

SECRET

M-4 SHERMAN TANK

Pakistan



Characteristics

Main armament	.75- or 76-mm. gun
Weight	35 tons
Speed	25 mph
Cruising range	175-200 miles
Crew	5

Remarks

This US tank is of World War II vintage, but Pakistan still has several hundred in its inventory.

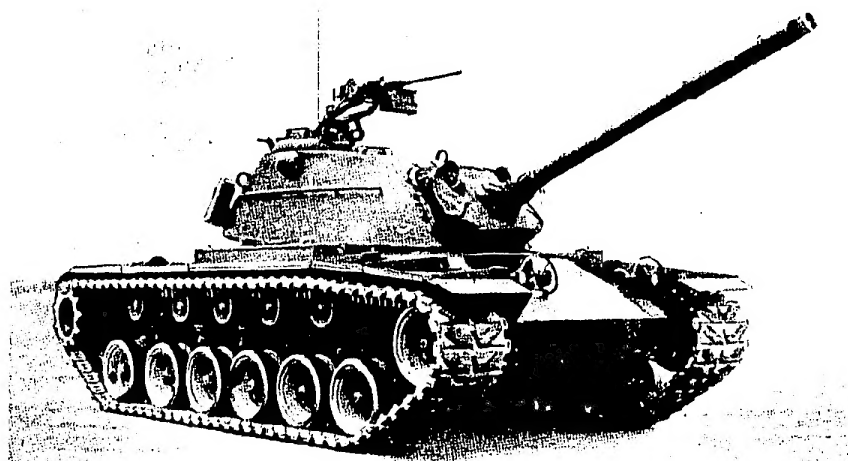
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SECRET

SECRET

M-47/48 PATTON TANK

Pakistan



Characteristics

Main armament	90-mm. gun
Weight	52 tons
Speed	32 mph
Cruising range	160 miles
Crew	4

Remarks

US medium tank comparable to the Soviet T-54/55. They are gradually being replaced in the Pakistan inventory by Chinese T-59s.

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SECRET

SECRET

HAWKER HUNTER  
Fighter

India



Characteristics

Engines	1, turbojet
Span	34 ft
Length	46 ft
Radius	270 nm
Speed	530 kts
Combat ceiling	45,000 ft

Armament . . . . . 2,000 lbs  
(cannon, bombs, rockets)

Remarks

The Hawker Hunters performed well during the 1971 war, and India is attempting to retain them in service as long as possible. They were supplied by the British in the late 1950s.

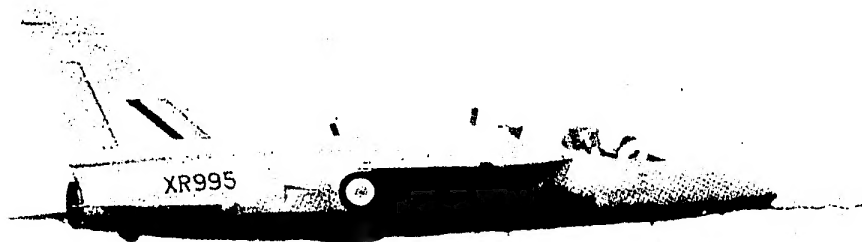
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SECRET

SECRET

GNAT  
Fighter

India



Characteristics

Engines	1, turbojet
Span	22 ft
Length	30 ft
Radius	370 nm
Speed	590 kts
Combat ceiling	40,000 ft

Armament . . . . . 2,000 lbs  
(cannon, bombs, rockets)

Remarks

The Gnat, although a subsonic aircraft, performed well in the 1971 war. India has decided to continue production of the aircraft under British license, and is working on an improved version.

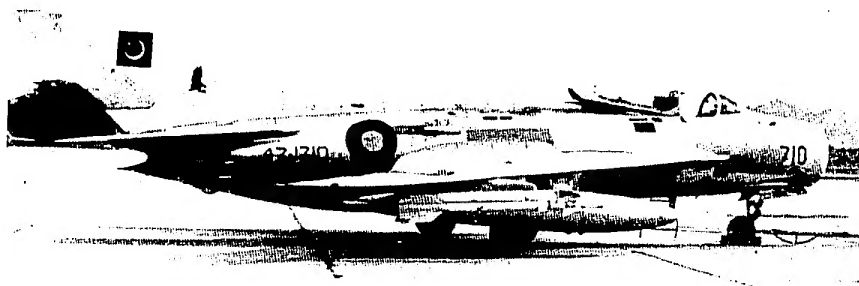
Glos - 9

SECRET

SECRET

MIG-19 (FARMER)  
Fighter

Pakistan



Characteristics

Engines	. . . . . 2, afterburning jet
Span	. . . . . 29 ft
Length	. . . . . 34 ft
Radius	. . . . . 550 nm
Speed	. . . . . 785 kts
Combat ceiling	. . . . . 55,600 ft

Armament

Maximum payload . . . . 1,100 pounds (guns, bombs,  
rockets, missiles)

Remarks

Pakistan has received well over 100 MIG-19s from China since 1965. It performs well at low altitudes and in a ground-support role, and is replacing older F-86s in operational units.

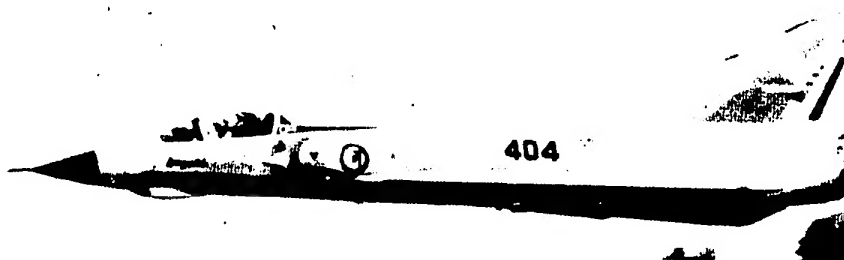
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SECRET

SECRET

MIRAGE III-C,-E  
Fighter

Pakistan



Characteristics

Engines	1, turbojet
Span	27 ft
Length	49 ft
Radius	260 nm (C); 790 nm (E)
Speed	600-1,050 kts
Combat altitude	50,000-60,000 ft

Armament . . . . . 2,000 lbs  
(cannon, bombs, air-to-air and  
air-to-surface rockets and missiles)

Remarks

The Mirage III and the Mirage 5 are the best supersonic fighters in the Pakistan Air Force, and Islamabad plans to purchase additional aircraft from France.

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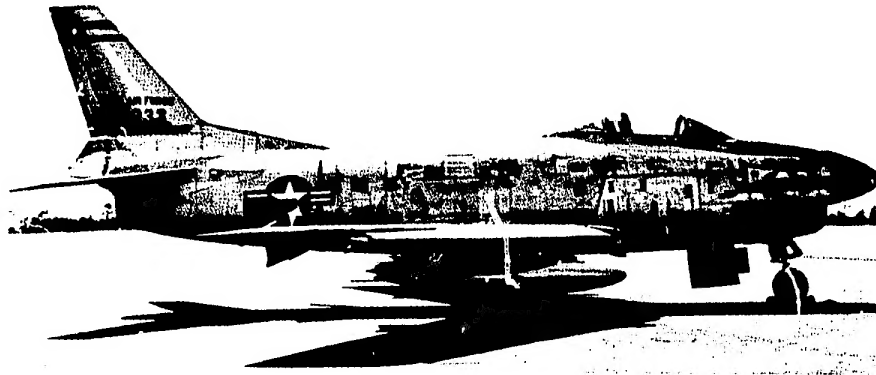
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F-86 SABRE  
Fighter

Pakistan, Bangladesh



Characteristics

Engines	1, jet
Span	39 ft
Length	39 ft
Radius	600 nm
Speed	600 kts
Combat ceiling	49,600 ft

Armament . . . . . 2,000 lbs  
(guns, bombs, rockets)

Remarks

The US F-86 fighter has long been the mainstay of the Pakistan Air Force, and in spite of its subsonic performance, Islamabad is still seeking more. They were heavily committed during the 1971 war. Bangladesh captured about eight F-86s at the end of the war, but needs spare parts and technical assistance to keep them operational.

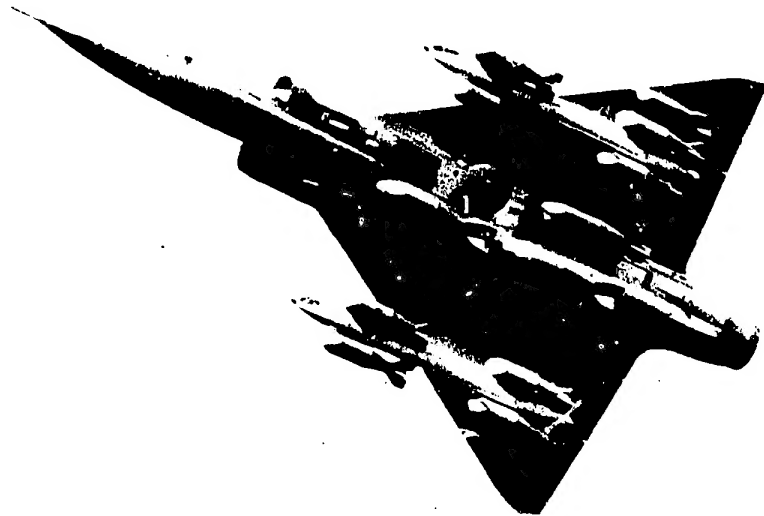
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SECRET

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MIRAGE 5  
Fighter/bomber

Pakistan



Characteristics

Engines	1, turbojet
Span	27 ft
Length	51 ft
Radius	475 nm
Speed	1,150 kts
Combat altitude	57,550 ft

Armament . . . . . (cannon, bombs, air-to-air and  
air-to-surface rockets and missiles)

Remarks

Pakistan purchased 30 Mirage 5s from France in 1970,  
but delivery did not begin until late 1972.

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SECRET

SECRET

**SU-7 (FITTER)**  
Fighter/Bomber

India



**Characteristics**

Engines	1, after-burning jet
Span	31 ft
Length	50 ft
Radius	325 nm
Speed	1,205 kts
Combat ceiling	59,000 ft

**Armament** . . . . . 4,400 lbs  
(guns, bombs, rockets, 2 infrared homing missiles)

**Remarks**

The Indians purchased SU-7s from the Soviet Union prior to the 1971 war, but were dissatisfied with their combat performance. New Delhi now seeks a fighter/bomber with increased range, speed, and payload comparable to the Mirage 5s in the Pakistani inventory.

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SECRET

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HF-24 MARUT  
Fighter/Bomber

India



Characteristics

Engines	2, turbojet
Span	30 ft
Length	52 ft
Radius	490 nm
Speed	600 kts
Combat ceiling	55,000 ft

Armament . . . . . 4,000 lbs  
(cannon, bombs, rockets)

Remarks

The HF-24 is the only combat aircraft produced in India that is not under a foreign license agreement. The aircraft was designed and built with foreign technical assistance, and the Indians continue to work on an improved version.

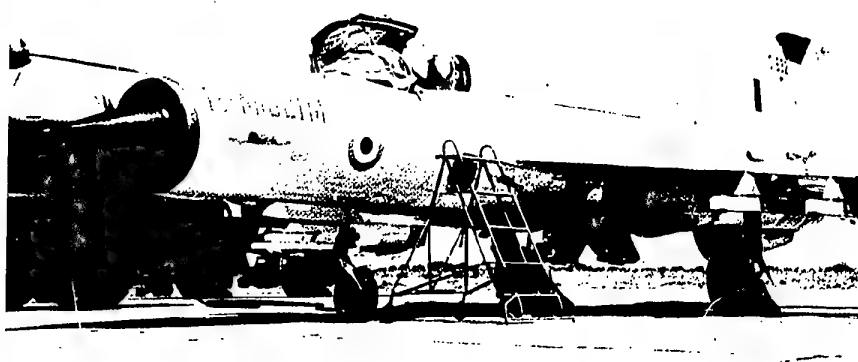
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SECRET

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MIG-21 (FISHBED)  
Fighter/Interceptor

India, Bangladesh



Characteristics

Engines	. . . . .	.1, after-burning jet
Span	. . . . .	23 ft
Length	. . . . .	44 ft
Radius	. . . . .	400 nm
Speed	. . . . .	.1,260 kts
Combat ceiling	. . . . .	.62,600 ft

Armament

3,300 lbs . . . . . (guns, bombs, rockets,  
two infrared homing missiles)

Remarks

The Indians have two versions of the Soviet MIG-21 in their inventory, the earlier MIG-21-FL(D) and the MIG-21M(J). The later version has improved range and an internal gun, and is more effective in a ground-support role. The MIG-21M will soon replace the MIG-21FL in series production under Soviet license. Bangladesh is receiving a squadron of MIG-21s from Moscow.

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SECRET

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B-57 CANBERRA  
Light Bomber

India, Pakistan



Characteristics

Engines	2, jet
Span	64 ft
Length	66 ft
Radius	1,100 nm
Speed	530 kts
Combat ceiling	48,400 ft

Armament . . . . . 6,000 lbs  
(guns, bombs, rockets)

Remarks

The US B-57 Canberra is the main bomber in the Pakistan Air Force, but it is vulnerable to Indian air defenses because of its subsonic speed. The British Canberra is the main bomber in the Indian Air Force.

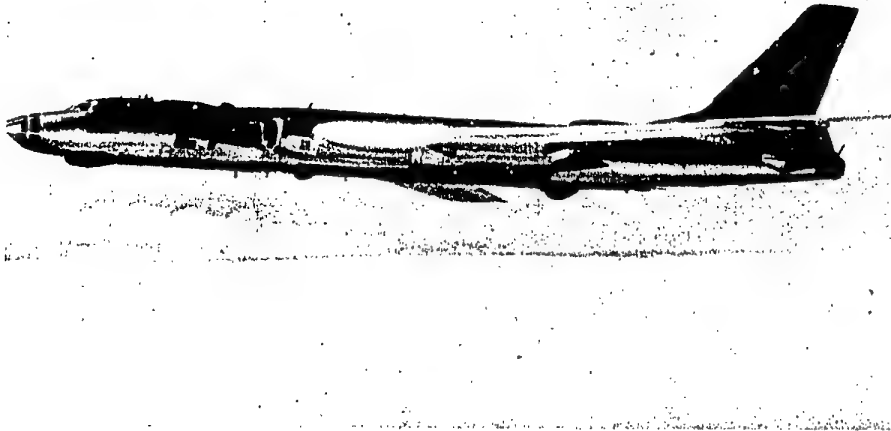
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SECRET

SECRET

**TU-16 (BADGER)**  
Bomber

Pakistan



**Characteristics**

Engines	2, jet
Span	108 ft
Length	121 ft
Radius	1,650 nm
Speed	500 kts
Cruise speed	445 kts
Combat ceiling	44,800 ft
Crew	5-6

Bomb Capacity . . . . . 20,000 lbs

Normal bomb load . . . . . 6,600 lbs

**Remarks**

China reportedly will make a squadron of TU-16s available to Pakistan in time of crisis, with the aircraft to remain in China until then.

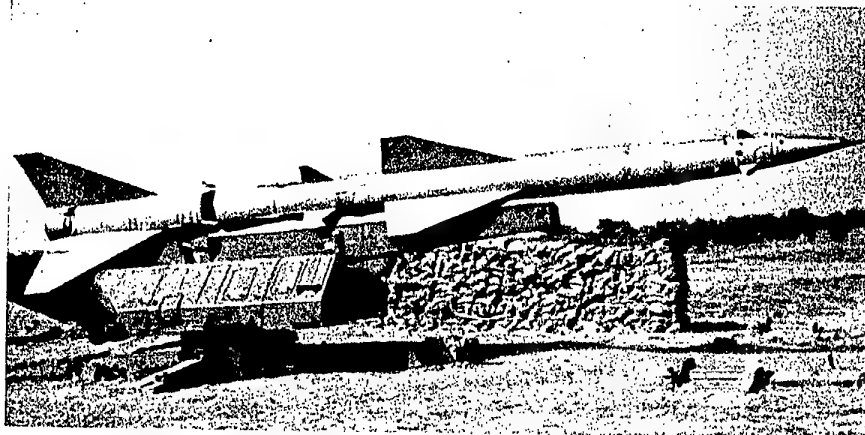
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SECRET

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SA-2 GUIDELINE  
Surface-to-Air Missile

India



Characteristics

Maximum Operational Range	19-27 nm
Altitude Range	1,500 to 80,000 ft
Warhead Type/Weight	HE/420 lbs
Guidance	Command
Accuracy	75 to 100 ft
Missile Weight	5,450 lbs
Missile Length	35.6 ft
Missile Diameter	19.7 in

Remarks

India acquired about 19 SA-2 launch batteries in the 1960s. The British Tigercat missile system is being acquired for low-altitude air defense.

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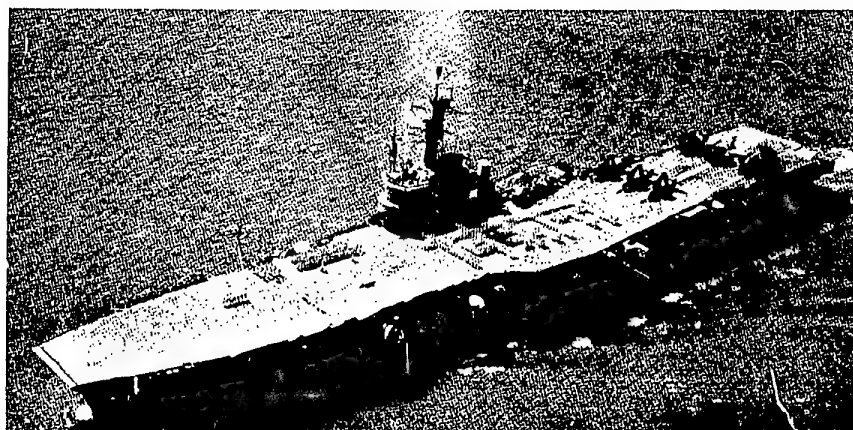
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MAJESTIC-CLASS  
Aircraft Carrier

India



Characteristics (INS Vikrant)

Complement	1,343
Length	630 ft
Beam	80 ft
Draft	24 ft
Displacement	16,000 tons
Maximum speed	24.5 knots
Aircraft	21 capacity (Seahawks or Alizes)

Remarks

India purchased the "Vikrant" from the UK in the late 1950s.

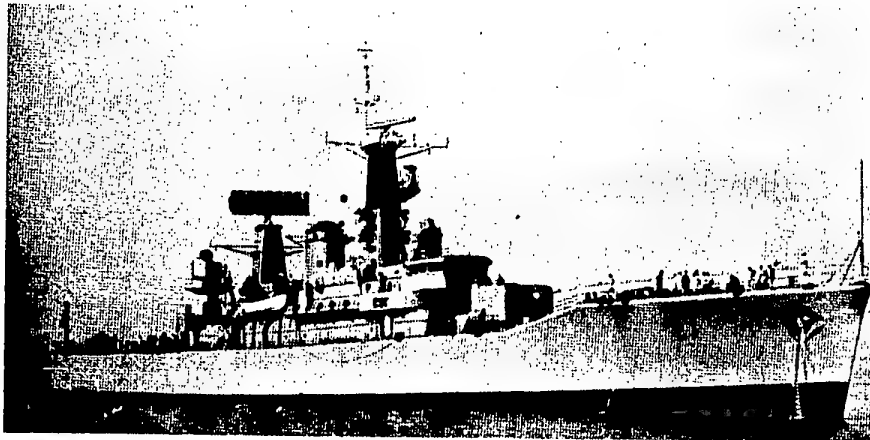
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SECRET

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LEANDER-CLASS  
Frigate

India



Characteristics

Complement	263
Length	360 ft
Beam	43 ft
Draft	18 ft
Displacement	2,450 tons
Maximum speed	30 kts

Armament . . . . . 2 twin 115-mm. main guns;  
2 quadruple Seacat AA missile launchers;  
1 ASW-configured Alouette III

Remarks

India is building six Leander-class frigates under British license, all of which should be completed by the late 1970s. The Indian Navy also has a large number of former British warships: two light cruisers of 1930s vintage; two destroyers of 1940s vintage; and seven destroyer escorts of 1950s vintage. The older units are used as training ships or are scheduled for replacement.

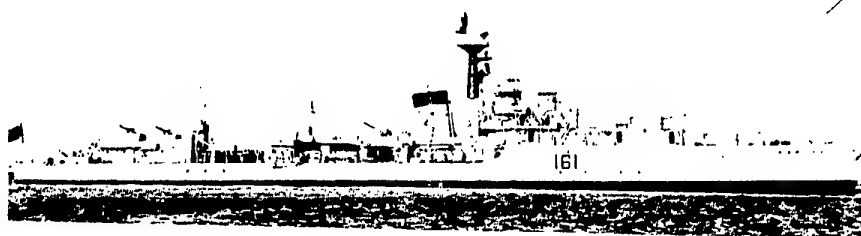
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SECRET

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BATTLE-CLASS  
Destroyer

Pakistan



Characteristics (PNS Badr)

Complement	270
Length	355 ft
Beam	40
Draft	17 ft
Displacement	2,325 tons
Maximum speed	31 kts
Armament	4 115-mm. main guns

Remarks

The "Badr" is one of the major surface warships in the Pakistan Navy. It is one of seven former British warships in the navy, the others being one light cruiser, three more destroyers, and two destroyer escorts. All are of the 1940s vintage.

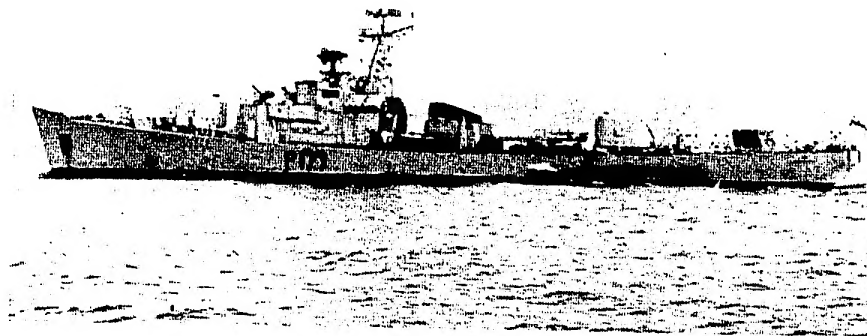
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SECRET

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PETYA-CLASS  
Destroyer Escort

India



Characteristics

Complement	100
Length	269 ft
Beam	30 ft
Draft	9 ft
Displacement	1,100 tons
Maximum speed	34 kts

Armament

Guns	2 twin 76.2-mm. mounts
Torpedoes	5 16-in. tubes
ASW	4 MBU-2500 rocket launchers
Depth charges	number unknown
Mines	2 mine rails

Remarks

India has received eight Petyas from the Soviet Union and two more are scheduled for delivery by 1975.

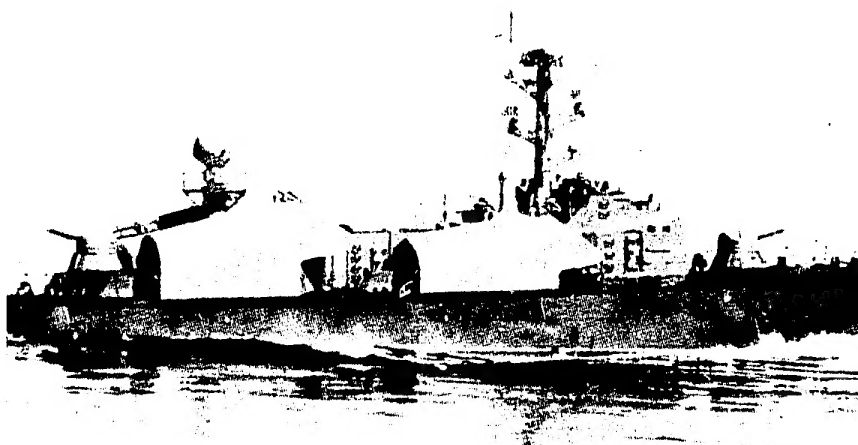
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SECRET

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OSA-1 CLASS  
Guided-Missile Patrol Boat

India



Characteristics

Complement	not available
Length	128 ft
Beam	25 ft
Draft	6 ft
Displacement	205-215 tons (full load)
Endurance	
at economical speed	1,500 nm at 14 kts
at maximum speed	550 nm at 34 kt

Armament

Missiles	4 single SS-N-2 SSM launchers; 4 missiles
Guns	2 twin 30-mm. AA machine-gun mounts

Remarks

India received eight Osas from the Soviet Union prior to the 1971 war, and they played a decisive role in the conflict. New Delhi has since ordered eight more of these coastal patrol boats.

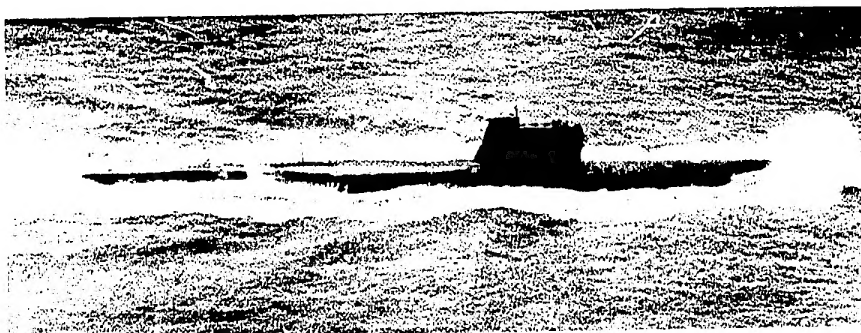
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SECRET

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F-CLASS  
Torpedo Attack Submarine

India



Characteristics

Complement	79
Length	300 ft
Beam	25 ft
Displacement	
surfaced	1,775 tons
submerged	2,470 tons
Propulsion	diesel, 3 screws
Torpedoes	22

Remarks

India received four F-class submarines from the Soviet Union before the 1971 war, and four more are on order.

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SECRET

SECRET

DAPHNE-CLASS  
Submarine

Pakistan



Characteristics

Complement	45
Length	190 ft
Beam	22 ft
Displacement	
surfaced	869 tons
submerged	1,053 tons
Propulsion	Diesel, 2 screws
Torpedoes	12 launchers

Remarks

Pakistan purchased three of these submarines from France in the late 1960s.

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